

IN THE SPECIFICATION

Please delete the paragraph at page 3, lines 14-16, as follows:

~~Fig. 7 is a graph showing a door opening/closing pattern for the elevator door created by the door control device shown in Fig. 6.~~

Please amend the paragraph at page 3, lines 17-18, as follows:

Fig. ~~[[8]]~~ 7 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 2 of the present invention.

Please amend the paragraph at page 3, lines 19-20, as follows:

Fig. ~~[[9]]~~ 8 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 3 of the present invention.

Please amend the paragraph at page 3, lines 21-22, as follows:

Fig. ~~[[10]]~~ 9 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 4 of the present invention.

Please amend the paragraph at page 3, line 23 to page 4, line 1, as follows:

Fig. ~~[[11]]~~ 10 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 5 of the present invention.

Please add the following paragraph at page 4, before the section heading at line 2, as follows:

Fig. 11 is a graph showing a door opening/closing pattern for the elevator door created by the door control device shown in Fig. 6.

Please amend the paragraph at page 7, lines 2-8, as follows:

Provided in a lower portion of the car 2 is a ~~weighting~~ weighing device 44 (~~not shown~~) (Fig. 6) for generating a signal in accordance with the size of the weight load inside the car 2. The ~~weighting~~ weighing device is adapted to measure the weight placed on the floor inside the car 2. It should be noted that the ~~weighting~~ weighing device may be adapted to measure the magnitude of the tensile force in a main rope suspending the car 2.

Please amend the paragraph at page 7, lines 9-16, as follows:

Provided within the hoistway 1 is an elevator control device 33 (Fig. 6) for controlling the operation of an elevator. Operation information 36 (Fig. 6) from the landing operation panel 10 and the in-car operation panel 13 and weight information 37 (Fig. 6) from the ~~weighting~~ weighing device are input to the elevator control device 33 as control information. The elevator control device 33 is adapted to control the operation of the elevator based on the control information.

Please amend the paragraph at page 8, line 15 to page 9, line 12, as follows:

Fig. 6 is a block diagram showing a main portion of the elevator door apparatus shown in Fig. 3. Further, Fig. [[7]] 11 is a graph showing a door opening/closing pattern for the elevator door 52 created by the door control device 32 shown in Fig. 6. Referring to the drawings, the door control device 32 is adapted to create the door opening/closing pattern as a control pattern for reciprocating the elevator door 52 based on the control information from the elevator control device 33, that is, the operation information 36 and the weight information 37. That is, when the full open/close button 11 of at least one of the landing operation panel 10 and the in-car operation panel 13 is being selected, the door control device

32 creates a door closing/opening pattern for full open/close operation 38 (indicated by the solid line of Fig. [[7]] 11) for reciprocating the elevator door 52 such that the door open position of the elevator door 52 becomes the full open position. Further, when the full open/close button 11 is not being selected, that is, when the half open/close button 12 of each of the landing operation panel 10 and the in-car operation panel 13 is being selected, the door control device 32 creates a door opening/closing pattern for half open/close operation 39 (indicated by the broken line of Fig. [[7]] 11) for reciprocating the elevator door 52 such that the door open position of the elevator door 52 becomes the half open position.

Please amend the paragraph at page 9, lines 13-20, as follows:

Accordingly, as shown in Fig. [[7]] 11, time t_2 it takes for the elevator door 52 to move between the door closure position and the door open position when the door drive device 26 is controlled in accordance with the door opening/closing pattern for half open/close operation 39 becomes shorter than time t_1 it takes for the elevator door 52 to move between the door closure position and the door open position when the door drive device 26 is controlled in accordance with the door opening/closing pattern for full open/close operation 38.

Please amend the paragraph beginning at page 9, line 21 through page 10, line 4, as follows:

Further, when creating the door opening/closing pattern for half open/close operation 39, the door control device 32 adjusts the half open position based on the weight information from the ~~weighting~~ weighing device. Accordingly, the half open position is adjusted so as to be closer to the full open position as the weight load inside the car 2 becomes larger, and to

be away from the full open position toward the inner side in the with direction as the weight load inside the car 2 becomes smaller.

Please amend the paragraph at page 12, line 24 to page 13, line 10, as follows:

Further, the door control device 32 obtains the door opening/closing pattern based on the weight information from the ~~weighting~~ weighing device that generates the signal in accordance with the size of the weight load inside the car 2, thereby making it possible to adjust the width of the elevator entrance 53 to be opened and closed by the elevator door 52 in accordance with the size of the weight load inside the car 2. As a result, the opening/closing width can be adjusted in accordance with the number of passengers inside the car 2, so the open/close time by the elevator door 52 can be shortened when the number of passengers is small. Accordingly, it is possible to enhance the efficiency of elevator operation.

Please amend the paragraph at page 14, lines 8-21, as follows:

Fig. ~~[[8]]~~ 7 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 2 of the present invention. While in the above-described example the door open position of the elevator door 52 is set to be one of the full open position and the half open position by operating the full open/close button 11 and the half open/close button 12 that are provided in each of the landing operation panel 10 and the in-car operation panel 13, the selection for setting the door open position of the elevator door 52 to one of the full open position and the half open position may be effected through remote operation from an elevator control room 47 for controlling the operation of the elevator. In this case, remote information 40 in the form of a signal due to the remote operation is input to the door control device 32 via the elevator control device 33.

Please amend the paragraph at page 15, lines 4-10, as follows:

Fig. ~~[[9]]~~ 8 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 3 of the present invention. While in Embodiment 1 the half open position of the elevator door 52 is adjusted based on the weight information 37 from the ~~weighting~~ weighing device 44 (Fig. 6), the half open position of the elevator door 52 may be adjusted based on stop floor information 41 from a stop floor detecting sensor 45 for detecting the floor at which the car 2 stops.

Please amend the paragraph at page 15, lines 11-21, as follows:

In this embodiment, the door open position adapted for the number of passengers using the elevator at each floor is set in the door control device 32 in advance in correspondence with each floor. Further, the stop floor information 41 from the stop floor detecting sensor 45 is input to the door control information 32 via the elevator control device 33 as control information, whereby the door control device 32 creates the door opening/closing pattern 35 for the elevator door 52 to be opened and closed between the door open position and the door closure position which corresponds to the floor at which the car 2 stops. Otherwise, Embodiment 3 is of the same configuration as Embodiment 1.

Please amend the paragraph at page 16, lines 8-13, as follows:

Fig. ~~[[10]]~~ 9 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 4 of the present invention. While in Embodiment 3 the half open position of the elevator door 52 is adjusted based on the stop floor information 41, the half open position of the elevator door 52 may be adjusted based on time information 42 from a timer 46.

Please amend the paragraph at page 16, lines 14-24, as follows:

In this embodiment, the door open position adapted for the number of passengers using the elevator during each of a plurality of time periods is set in advance in the door control device 32 in correspondence with each of the time periods. Further, the time information 42 from the timer 46 is input as control information to the door control device 32 via the elevator control device 33, whereby the door control device 32 creates the door opening/closing pattern 35 for the elevator door 52 between the door open position and the door closure position which corresponds to the time period to which the time indicated by the timer belongs. Otherwise, Embodiment 4 is of the same configuration as Embodiment 3.

Please amend the paragraph at page 17, lines 10-16, as follows:

Fig. [[11]] 10 is a block diagram showing a main portion of an elevator door apparatus according to Embodiment 5 of the present invention. Abnormality information 43 from a door operation abnormality detecting sensor 49 for detecting an abnormality in the operation of the elevator door 52 is input to the elevator control device 33. The abnormality information 43 from the elevator control device 33 is input as control information to the door control device 32.